CYB 102

● ● ● Advanced 75 hours 5 modules · 35 lessons

Network Defense, Detection, Incident Response, Recovery & Building a Utility Cyber Program

Remove internet exposure, segment and harden OT, patch safely, detect attacks at the network and the HMI, respond and report, recover from ransomware and build a program that keeps improving.

75	5	35	1,058	105	35
HOURS OF TRAINING	MODULES	LESSONS	STUDY CARDS	SCENARIOS	TECHNICAL FIGURES

COURSE OBJECTIVES

By the end of this course you will be able to:

1. Find and remove internet exposure, segment OT with firewalls, zones and conduits and secure radio and cellular telemetry.
2. Harden PLCs, HMIs and servers, manage OT vulnerabilities with CISA KEV and advisories, and control removable media.
3. Decide what to log, monitor OT networks and recognize abnormal HMI and process behavior as an operator.
4. Run the first hour of a cyber incident: isolate, go to manual operation, protect public health and preserve evidence.
5. Report incidents to CISA, the FBI, EPA, the state primacy agency and the Virginia Fusion Center within required times.
6. Back up PLC logic and HMI projects (3-2-1, offline), set RTO/RPO and restore and validate OT after ransomware.
7. Build a staged roadmap, write secure procurement specifications and measure program maturity over time.

WHAT YOU WILL LEARN

Exposure & segmentation
Internet exposure, firewalls, zones and conduits, wireless and telemetry.

Hardening & patching
Secure configuration, KEV-driven patching, allowlisting and USB control.

Detection
Logging, OT monitoring, the operator as a sensor and threat intelligence.

Incident response
First actions, manual operation, reporting, evidence and communications.

Recovery & resilience
3-2-1 backups, RTO/RPO, ransomware recovery and the ERP.

Program building
Roadmaps, secure procurement, cloud/IoT, emerging threats and maturity.

MAJOR TOPICS COVERED

Module 6	Network Defense & OT Hardening	7 lessons
Module 7	Monitoring, Detection & Threat Awareness	7 lessons
Module 8	Cyber Incident Response & Reporting	7 lessons
Module 9	Backup, Recovery & Cyber Resilience	7 lessons
Module 10	Building & Sustaining a Utility Cybersecurity Program	7 lessons

COURSE HIGHLIGHTS

- **75 hours** of structured, self-paced instruction with active-time tracking.
- **35 labeled technical figures** — plant networks, control systems and response steps, with numbered hotspots that explain each part.
- **105 field scenarios** with background, decision points and worked answers.
- **1,058 study cards**, 35 printable checklists and hands-on calculators.
- **Module quizzes** and a completion certificate with a verification code.

WHO IT'S FOR

SCADA, I&C and IT staff, operations supervisors, emergency planners and managers at water and wastewater utilities.

BEFORE YOU START

CYB 101 recommended.

WHERE TO NEXT

IC 103 for SCADA and networks, or EHS 102 for emergency preparedness.

Start learning Create a free account at tryetech.com, open **Cybersecurity** and begin with Module 6.